

STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

REPORT OF EXAMINATION

TO APPROPRIATE PUBLIC WATERS OF THE STATE OF WASHINGTON

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Surface Water

(Issued in accordance with the provisions of Chapter 117, Laws of Washington for 1917, and amendments thereto, and the rules and regulations of the Department of Ecology.)

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Ground Water

(Issued in accordance with the provisions of Chapter 263, Laws of Washington for 1945, and amendments thereto, and the rules and regulations of the Department of Ecology.)

PRIORITY DATE February 9, 1993	APPLICATION NUMBER G2-28743	PERMIT NUMBER	CERTIFICATE NUMBER
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NAME Helen Dutton			
ADDRESS (STREET) PO Box 2544	(CITY) Olympia	(STATE) Washington	(ZIP CODE) 98507-2544

PUBLIC WATERS TO BE APPROPRIATED

SOURCE Well

TRIBUTARY OF (IF SURFACE WATERS)

MAXIMUM CUBIC FEET PER SECOND	MAXIMUM GALLONS PER MINUTE 60	MAXIMUM ACRE-FEET PER YEAR 11.5
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QUANTITY, TYPE OF USE, PERIOD OF USE 11.5 Acre-feet per year	Multiple domestic supply	Year-round, as needed
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LOCATION OF DIVERSION/WITHDRAWAL

APPROXIMATE LOCATION OF DIVERSION-WITHDRAWAL 770 feet South and 220 feet East of the North quarter corner of Section 24.

LOCATED WITHIN (SMALLEST LEGAL SUBDIVISION) W½ NE¼	SECTION 24	TOWNSHIP N. 18	RANGE, (E. OR W.) W.M. 3W	W.R.I.A. 13	COUNTY Thurston
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RECORDED PLATTED PROPERTY

LOT	BLOCK	OF (GIVE NAME OF PLAT OR ADDITION)
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LEGAL DESCRIPTION OF PROPERTY ON WHICH WATER IS TO BE USED

The West ½ of the Northeast ¼ of Section 24, T. 18 N., R. 3 W.W.M. excepting therefrom tract conveyed to Henry D. and Suzy W. Moulder, Husband and Wife, by deed dated September 3, 1982 under Auditors File # 8209030008. Also, except that certain 60 foot wide strip conveyed to Thurston County for McKenzie Road as recorded September 7, 1982 under Auditors File # 8209070127 records of Thurston County, Washington.

DESCRIPTION OF PROPOSED WORKS

8" x 70.6' drilled well

DEVELOPMENT SCHEDULE

BEGIN PROJECT BY THIS DATE:

Started

COMPLETE PROJECT BY THIS DATE:

January 1, 1997

WATER PUT TO FULL USE BY THIS DATE:

January 1, 1998

REPORT

BACKGROUND:

Under the provisions of Chapters 90.03 and 90.44 Revised Code of Washington (RCW) Helen Dutton filed an application to withdrawal ground water from a well. The amount requested is 60 gallons per minute for multiple-domestic supply. The application was assigned No. G2-28743 and given a priority date of February 9, 1993.

Legal notice was published as required. No protests or objections were received as a result of the public notice.

I recommend issuance of a permit based on the following report of examination.

INVESTIGATION:

In consideration of this application I evaluated information submitted with the application, water-well reports in the project area, recorded water rights, registered claims, Geology and Ground Water Resources of Thurston County - Water Supply Bulletin No. 10, Chapter 173-513 WAC, and consultation with Ecology Water Resource hydrogeologists.

Location of Project Site

The proposed project site is located just west of Olympia approximately one-half-mile south of the HWY 101 and HWY 8 interchange off of McKenzie Road. Site elevation is approximately 150 feet above sea level. Eld Inlet is situated approximately one-half-mile east of the well site. The development site and surrounding topography appear to slope northeasterly toward Eld Inlet. Surrounding land use is comprised of single family homes and small farms.

System Description

Well Depth: 70.6 feet
Casing Diameter: 8 inch
Static Water Level: 12.6 feet
Yield: 60 gpm
Driller: Williams Drilling Inc.
Date Constructed: February 10, 1995

Proposed water system designed for 23 homes.

Aquifer Characteristics

The subject well is completed in an aquifer consisting of coarse water-bearing sand at 70.6 feet below land surface. Overlying materials consist of coarse sand with clay binder, packed gravel, and coarse sand with clay binder. A 7-inch-diameter screen, slot size .040", was set from 65 feet to 70 feet. Surface-water and ground-water appear to drain northeast toward Eld Inlet.

Existing Water Rights

The following recorded water rights, registered claims, and water well reports are on file with Ecology within a one-mile radius of the subject well:

- Fourteen ground-water rights have been issued authorizing a combined instantaneous withdrawal of 715 gallons per minute, 210.5 acre-feet per year. Primary water use is for multiple-domestic supply. Other uses are single domestic, irrigation, stock water, commercial/industrial, and fish propagation.

Report Continued

- Twenty surface-water rights have been issued authorizing a combined instantaneous diversion rate of 8.2 cubic feet per second, 160.2 acre-feet per year. Primary water use is for single-domestic supply and irrigation. Other uses are multiple-domestic supply, stock water, power, fish propagation, recreation, and beautification. None of these rights are for sources in close proximity to the subject well.
- Ninety-five ground-water claims and seven surface-water claims are registered for sources that may be within a one-mile radius as the subject well. The majority of claimed use is for domestic supply.
- Several water-well reports are on file with Ecology for wells within a one-mile radius of the subject well. These wells range in depth from 19 to 500 feet.

Chapter 173-513 WAC Instream Resources Protection Program -- Deschutes River Basin, Water Resource Inventory Area (WRIA) 13

In June 1980, Chapter 173-513 WAC Instream Resources Protection Program -- Deschutes River Basin, WRIA 13 established instream flows and closures for parts of the Deschutes River, its tributaries, and other tributaries to Puget Sound. The closures vary from seasonal to year round, while some tributaries have low-flow limitations. Ground-water discharge maintains the base (low) flows of streams in the watershed, and additional pumping could cause a reduction in stream flows.

Applications for ground water where the source is not connected to a closed surface-water source may be approved if existing rights are not impaired.

The subject well site is situated approximately 2,000 feet (approx. ½ mile) north of Swift Creek which is a tributary to McLane Creek. McLane Creek and all tributaries are closed year round to further consumptive appropriation. Perry Creek, situated approximately 4,000 feet north of the subject site, discharges directly to Eld Inlet.

Any effects on Swift, Perry, or McLane Creeks which might result from pumping the subject well will likely occur within the tidally influenced lower reaches of these streams. Accordingly, there should be no impairment of instream habitat or fish passage.

Ecology Approval Requirements

Prior to approving new allocations of water, Ecology must determine that:

- water is available for appropriation
- water will be put to beneficial use
- the appropriation will not impair existing rights
- the appropriation will not be detrimental to the public

Water Requirements

Water requirements for multiple-domestic supply should not exceed an average of 450 gallons per day per home. For 23 homes this amounts to 11.5 acre-feet per year.

FINDINGS AND CONCLUSIONS:

Based upon the above investigation, the Department of Ecology finds the following:

1. The proposed use of water is a beneficial use of water.
2. The source of water requested is not in hydraulic continuity with the Deschutes River or its tributaries.
3. Water is available for appropriation.
4. The proposed appropriation will not be detrimental to public welfare.
5. The proposed appropriation will not impair existing water rights.

RECOMMENDATIONS:

I recommend approval of this application and issuance of a permit to allow withdrawal of 60 gallons per minute 11.5 acre-feet per year for multiple-domestic supply. The period of use shall be year round as needed.

This permit shall be subject to all applicable state regulations and the following provisions:

The water appropriated under this application will be used for public water supply. The State Board of Health rules require public water supply owners to obtain written approval from the Office of Water Supply Department of Health, Mail Stop 7822, Building 3, Olympia, Washington 98504-7822, prior to any new construction or alterations of a public water supply system.

Installation and maintenance of an access port as described in WAC 173-160-355 is required. An air line and gauge may be installed in addition to the access port.

An approved metering device shall be installed and maintained in accordance with RCW 90.03.360, WAC 508-64-020 through -040 (installation, operation, and maintenance requirements are attached). Meter readings shall be recorded at least monthly.

Chloride concentration analysis shall be performed prior to system use, then quarterly when the system is in use by a laboratory accredited by the Department of Ecology. The resulting data shall be submitted to the Department of Ecology, Southwest Regional Office annually, in the month of February.

If the chloride concentration exceeds 100 mg/L, the withdrawal rate shall be reduced or the pump setting raised to reduce the chloride level to below 100 mg/L.

"The applicant is advised that notice of Proof of Appropriation of water (under which the final certificate of water right is issued) should not be filed until the permanent distribution system has been constructed and the quantity of water allocated by the permit has been put to full beneficial use."

Issuance of this water right is subject to the implementation of the minimum requirements established in the Conservation Planning Requirements, Guideline and Requirements for Public Water Systems Regarding Water Use Reporting, Demand Forecasting Methodology, and Conservation Programs, July 1994, and as revised.

Under RCW 90.03.005 and 90.54.020(6), conservation and improved water use efficiency must be emphasized in the management of the states water resources, and must be considered as a potential new source of water. Accordingly, as part of the terms of this water right, the applicant shall prepare and implement a water conservation plan approved by Department of Health. The standards for such a plan may be obtained from either the Department of Health or the Department of Ecology.

REPORTED BY: Vicki Wardust Date: December 29, 1995

The statutory permit fee for this application is \$20.00.